

Date: Fri, 7 Jan 94 17:00:41 PST
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V94 #11
To: Info-Hams

Info-Hams Digest Fri, 7 Jan 94 Volume 94 : Issue 11

Today's Topics:

Daily Summary of Solar Geophysical Activity for 04 January
Examination Opportunities Scheduled 1/06/94 to 4/25/94

I need a terminal program for 2 TNCs at once

ORBS\$007.MICRO.AMSAT

ORBS\$007.MISC.AMSAT

ORBS\$007.OSCAR.AMSAT

ORBS\$007.WEATH.AMSAT

Phonecalls from 20,000 feet?!...

Repeater database?

TOYOTAS AND HAM RIGS

WANTED:Synchronous Detector Schematic

What Kind of Antenna Is This?

Where's my QST?

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>

Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>

Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available (by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text herein consists of personal comments and does not represent the official policies or positions of any party. Your mileage may vary. So there.

Date: Thu, 6 Jan 1994 16:57:55 MST
From: swrinde!cs.utexas.edu!math.ohio-state.edu!cyber2.cyberstore.ca!
nnntp.cs.ubc.ca!alberta!nebulus!ve6mgs!usenet@network.ucsd.edu
Subject: Daily Summary of Solar Geophysical Activity for 04 January
To: info-hams@ucsd.edu

DAILY SUMMARY OF SOLAR GEOPHYSICAL ACTIVITY

SOLAR AND GEOPHYSICAL ACTIVITY INDICES FOR 04 JANUARY, 1994

NOTE: The Effective Sunspot Number for 03 JAN 94 was 67.0.
The Full Kp Indices for 03 JAN 94 are: 3- 1- 3o 3+ 3+ 3- 3- 1+

SYNOPSIS OF ACTIVITY

Geophysical activity forecast: the geomagnetic field is expected to be quiet to unsettled.

Event probabilities 05 jan-07 jan

Class M	25/25/25
Class X	05/05/05
Proton	05/05/05
PCAF	Green

Geomagnetic activity probabilities 05 jan-07 jan

A. Middle Latitudes

Active	20/20/20
Minor Storm	10/10/10
Major-Severe Storm	01/01/01

B. High Latitudes

Active	20/20/20
Minor Storm	10/10/10
Major-Severe Storm	01/01/01

HF propagation conditions were normal over all regions. Australian communicators have noted additional openings on VHF FM bands near 90 to 100 MHz covering fairly large distances. The suspected source of these openings is sporadic-E. No changes in propagation are expected over the next 3 days, through at least 07 January inclusive. Normal propagation should persist.

COPIES OF JOINT USAF/NOAA SESC SOLAR GEOPHYSICAL REPORTS

=====

REGIONS WITH SUNSPOTS. LOCATIONS VALID AT 04/2400Z JANUARY

NMBR	LOCATION	LO	AREA	Z	LL	NN	MAG	TYPE
7645	N13W09	083	0370	FAI	17	046	BETA-GAMMA	
7646	S08W12	086	0600	EKI	11	029	BETA	
7647	S15W21	095	0090	DSO	09	008	BETA	
7648	N06E56	018	0100	DSO	08	008	BETA	
7649	S12W01	075					PLAGE	

REGIONS DUE TO RETURN 05 JANUARY TO 07 JANUARY

NMBR LAT LO

NONE

LISTING OF SOLAR ENERGETIC EVENTS FOR 04 JANUARY, 1994

BEGIN	MAX	END	RGN	LOC	XRAY	OP	245MHZ	10CM	SWEEP	SWF
NO EVENTS OBSERVED										

POSSIBLE CORONAL MASS EJECTION EVENTS FOR 04 JANUARY, 1994

BEGIN	MAX	END	LOCATION	TYPE	SIZE	DUR	II	IV
04/0059	0119	0150	S10E14	LDE	C1.2	51		

INFERRED CORONAL HOLES: LOCATIONS VALID AT 04/2400Z

ISOLATED HOLES AND POLAR EXTENSIONS

EAST	SOUTH	WEST	NORTH	CAR	TYPE	POL	AREA	OBSN
NO DATA AVAILABLE FOR ANALYSIS								

SUMMARY OF FLARE EVENTS FOR THE PREVIOUS UTC DAY

Date	Begin	Max	End	Xray	Op	Region	Locn	2695 MHz	8800 MHz	15.4 GHz
03 Jan:	0436	0437	0440		SF	7646	S09E13			
	B1035	1058	A1109		SF	7648	N05E79			
	1622	1626	1630	B5.0	SF	7648	N03E78			
	1636	1644	1647		SF	7648	N03E76			
	1756	1803	1806	B8.8	SF	7648	N06E76			
	1929	1933	1940		SF	7648	N06E74			
	1942	1946	1948	C1.0	SF	7648	N03E76			
	2311	2312	2315		SF	7648	N06E73			
	2334	2337	2340		SF	7648	N05E67			

REGION FLARE STATISTICS FOR THE PREVIOUS UTC DAY

	C	M	X	S	1	2	3	4	Total	(%)
Region 7646:	0	0	0	1	0	0	0	0	001	(11.1)
Region 7648:	1	0	0	8	0	0	0	0	008	(88.9)
Uncorrelated:	0	0	0	0	0	0	0	0	000	(0.0)

Total Events: 009 optical and x-ray.

EVENTS WITH SWEEPS AND/OR OPTICAL PHENOMENA FOR THE LAST UTC DAY

Date	Begin	Max	End	Xray	Op	Region	Locn	Sweeps/Optical Observations

03 Jan:B1035 1058 A1109 SF 7648 N05E79 III

NOTES:

All times are in Universal Time (UT). Characters preceding begin, max, and end times are defined as: B = Before, U = Uncertain, A = After. All times associated with x-ray flares (ex. flares which produce associated x-ray bursts) refer to the begin, max, and end times of the x-rays. Flares which are not associated with x-ray signatures use the optical observations to determine the begin, max, and end times.

Acronyms used to identify sweeps and optical phenomena include:

II	= Type II Sweep Frequency Event
III	= Type III Sweep
IV	= Type IV Sweep
V	= Type V Sweep
Continuum	= Continuum Radio Event
Loop	= Loop Prominence System,
Spray	= Limb Spray,
Surge	= Bright Limb Surge,
EPL	= Eruptive Prominence on the Limb.

** End of Daily Report **

Date: 8 Jan 94 00:15:11 GMT
From: ogicse!emory!europa.eng.gtefsd.com!gatech!mailer.acns.fsu.edu!
freenet.scri.fsu.edu!twright@network.ucsd.edu
Subject: Examination Opportunities Scheduled 1/06/94 to 4/25/94
To: info-hams@ucsd.edu

Amateur Radio <ARRL-VE> testing will be conducted Sunday February 6th, 1994 at 13:00 hrs EST at the Morehead/Rowan County D.E.S. Building US 32 connector road Morehead, Ky.

All license classes will be tested. Please bring 2 forms of ID, one with a current photo and any CSCE's.

This testing session is contingent to the weather.
Talk in freq: 146.910- the K4GFY Repeater

For further information contact:
Steven "Buck" Duley ARRL-VE KA4DRZ
(606) 674-6815

For KA4DRZ de Tim Wright KD40VM

--

Date: 7 Jan 94 12:09:28 GMT
From: ogicse!emory!sol.ctr.columbia.edu!howland.reston.ans.net!cs.utexas.edu!not-
for-mail@network.ucsd.edu
Subject: I need a terminal program for 2 TNCs at once
To: info-hams@ucsd.edu

I am looking for a TERMINAL (not a logging) program that can handle
two TNCs at once (one through each of two COM ports).
Preferable FTP-able, but I can send you a disk if you have it.
73
Dave/KA1NCN

End of returned message

Date: 7 Jan 94 13:54:00 GMT
From: news-mail-gateway@ucsd.edu
Subject: ORBS\$007.MICRO.AMSAT
To: info-hams@ucsd.edu

SB KEPS @ AMSAT \$ORBS-007.D
Orbital Elements 007.MICROS

HR AMSAT ORBITAL ELEMENTS FOR THE MICROSATS
FROM WA5QGD FORT WORTH,TX January 7, 1994
BID: \$ORBS-007.D
TO ALL RADIO AMATEURS BT

Satellite: UO-14
Catalog number: 20437
Epoch time: 94005.38579769
Element set: 944
Inclination: 98.6022 deg
RA of node: 92.3141 deg
Eccentricity: 0.0010623
Arg of perigee: 314.0719 deg
Mean anomaly: 45.9578 deg
Mean motion: 14.29814607 rev/day
Decay rate: 7.0e-07 rev/day^2
Epoch rev: 20632
Checksum: 305

Satellite: AO-16

Catalog number: 20439
Epoch time: 94005.72754607
Element set: 745
Inclination: 98.6104 deg
RA of node: 93.7213 deg
Eccentricity: 0.0011015
Arg of perigee: 313.5668 deg
Mean anomaly: 46.4599 deg
Mean motion: 14.29870637 rev/day
Decay rate: 5.1e-07 rev/day^2
Epoch rev: 20638
Checksum: 310

Satellite: D0-17

Catalog number: 20440
Epoch time: 94002.19917332
Element set: 744
Inclination: 98.6107 deg
RA of node: 90.5019 deg
Eccentricity: 0.0011449
Arg of perigee: 322.9054 deg
Mean anomaly: 37.1337 deg
Mean motion: 14.30007759 rev/day
Decay rate: 5.3e-07 rev/day^2
Epoch rev: 20589
Checksum: 285

Satellite: W0-18

Catalog number: 20441
Epoch time: 94005.74014108
Element set: 729
Inclination: 98.6102 deg
RA of node: 94.0149 deg
Eccentricity: 0.0011724
Arg of perigee: 313.2067 deg
Mean anomaly: 46.8135 deg
Mean motion: 14.29985383 rev/day
Decay rate: 7.2e-07 rev/day^2
Epoch rev: 20640
Checksum: 282

Satellite: L0-19

Catalog number: 20442
Epoch time: 94005.51918470
Element set: 744
Inclination: 98.6116 deg
RA of node: 94.0172 deg
Eccentricity: 0.0012086

Arg of perigee: 313.0601 deg
Mean anomaly: 46.9565 deg
Mean motion: 14.30078732 rev/day
Decay rate: 7.1e-07 rev/day^2
Epoch rev: 20638
Checksum: 283

Satellite: U0-22

Catalog number: 21575
Epoch time: 94005.74855109
Element set: 445
Inclination: 98.4531 deg
RA of node: 83.4070 deg
Eccentricity: 0.0008662
Arg of perigee: 56.6893 deg
Mean anomaly: 303.5122 deg
Mean motion: 14.36879718 rev/day
Decay rate: 1.32e-06 rev/day^2
Epoch rev: 12975
Checksum: 315

Satellite: K0-23

Catalog number: 22077
Epoch time: 94002.16351446
Element set: 340
Inclination: 66.0861 deg
RA of node: 267.5903 deg
Eccentricity: 0.0007830
Arg of perigee: 328.5974 deg
Mean anomaly: 31.4576 deg
Mean motion: 12.86282748 rev/day
Decay rate: -3.7e-07 rev/day^2
Epoch rev: 6543
Checksum: 304

Satellite: A0-27

Catalog number: 22825
Epoch time: 94002.41089026
Element set: 242
Inclination: 98.6729 deg
RA of node: 79.7643 deg
Eccentricity: 0.0008661
Arg of perigee: 340.3461 deg
Mean anomaly: 19.7388 deg
Mean motion: 14.27598458 rev/day
Decay rate: 2.8e-07 rev/day^2
Epoch rev: 1403
Checksum: 318

Satellite: IO-26
Catalog number: 22826
Epoch time: 94002.12352015
Element set: 243
Inclination: 98.6726 deg
RA of node: 79.4914 deg
Eccentricity: 0.0009286
Arg of perigee: 340.8280 deg
Mean anomaly: 19.2572 deg
Mean motion: 14.27701091 rev/day
Decay rate: 4.8e-07 rev/day^2
Epoch rev: 1399
Checksum: 296

Satellite: KO-25
Catalog number: 22830
Epoch time: 94001.47087182
Element set: 243
Inclination: 98.5724 deg
RA of node: 77.8609 deg
Eccentricity: 0.0010938
Arg of perigee: 310.1599 deg
Mean anomaly: 49.8622 deg
Mean motion: 14.28025206 rev/day
Decay rate: 4.4e-07 rev/day^2
Epoch rev: 1390
Checksum: 296

/EX

Date: 7 Jan 94 14:00:00 GMT
From: news-mail-gateway@ucsd.edu
Subject: ORBS\$007.MISC.AMSAT
To: info-hams@ucsd.edu

SB KEPS @ AMSAT \$ORBS-007.M
Orbital Elements 007.MISC

HR AMSAT ORBITAL ELEMENTS FOR MANNED AND MISCELLANEOUS SATELLITES
FROM WA5QGD FORT WORTH, TX January 7, 1994
BID: \$ORBS-007.M
TO ALL RADIO AMATEURS BT

Satellite: MIR
Catalog number: 16609

Epoch time: 94005.22314691
Element set: 72
Inclination: 51.6193 deg
RA of node: 284.4311 deg
Eccentricity: 0.0005853
Arg of perigee: 164.6911 deg
Mean anomaly: 195.4261 deg
Mean motion: 15.59559673 rev/day
Decay rate: 1.2629e-04 rev/day^2
Epoch rev: 45062
Checksum: 301

Satellite: HUBBLE

Catalog number: 20580
Epoch time: 94004.90469308
Element set: 415
Inclination: 28.4684 deg
RA of node: 204.6894 deg
Eccentricity: 0.0006313
Arg of perigee: 180.1183 deg
Mean anomaly: 179.9404 deg
Mean motion: 14.90410640 rev/day
Decay rate: 1.033e-05 rev/day^2
Epoch rev: 500
Checksum: 264

Satellite: GRO

Catalog number: 21225
Epoch time: 94004.88663637
Element set: 42
Inclination: 28.4636 deg
RA of node: 284.9027 deg
Eccentricity: 0.0003711
Arg of perigee: 171.8955 deg
Mean anomaly: 188.1707 deg
Mean motion: 15.39742393 rev/day
Decay rate: 5.841e-05 rev/day^2
Epoch rev: 3173
Checksum: 309

Satellite: UARS

Catalog number: 21701
Epoch time: 94004.24257924
Element set: 446
Inclination: 56.9823 deg
RA of node: 95.9801 deg
Eccentricity: 0.0005475
Arg of perigee: 107.2007 deg

Mean anomaly: 252.9626 deg
Mean motion: 14.96383081 rev/day
Decay rate: 2.801e-05 rev/day^2
Epoch rev: 12639
Checksum: 295

Satellite: POSAT
Catalog number: 22829
Epoch time: 94001.75322183
Element set: 235
Inclination: 98.6670 deg
RA of node: 79.1269 deg
Eccentricity: 0.0010186
Arg of perigee: 328.1394 deg
Mean anomaly: 31.9170 deg
Mean motion: 14.27993596 rev/day
Decay rate: 4.9e-07 rev/day^2
Epoch rev: 1394
Checksum: 310

/EX

Date: 7 Jan 94 13:51:00 GMT
From: news-mail-gateway@ucsd.edu
Subject: ORBS\$007.OSCAR.AMSAT
To: info-hams@ucsd.edu

SB KEPS @ AMSAT \$ORBS-007.0
Orbital Elements 007.OSCAR

HR AMSAT ORBITAL ELEMENTS FOR OSCAR SATELLITES
FROM WA5QGD FORT WORTH,TX January 7, 1994
BID: \$ORBS-007.0
TO ALL RADIO AMATEURS BT

Satellite: AO-10
Catalog number: 14129
Epoch time: 94005.12150341
Element set: 239
Inclination: 27.2067 deg
RA of node: 348.0660 deg
Eccentricity: 0.6021024
Arg of perigee: 143.8064 deg
Mean anomaly: 278.2612 deg
Mean motion: 2.05878444 rev/day
Decay rate: -7.5e-07 rev/day^2

Epoch rev: 7942
Checksum: 275

Satellite: UO-11
Catalog number: 14781
Epoch time: 94005.59076342
Element set: 645
Inclination: 97.7949 deg
RA of node: 27.8697 deg
Eccentricity: 0.0013065
Arg of perigee: 69.6655 deg
Mean anomaly: 290.5953 deg
Mean motion: 14.69115948 rev/day
Decay rate: 4.22e-06 rev/day²
Epoch rev: 52643
Checksum: 347

Satellite: RS-10/11
Catalog number: 18129
Epoch time: 93362.24286562
Element set: 841
Inclination: 82.9283 deg
RA of node: 95.2053 deg
Eccentricity: 0.0012703
Arg of perigee: 133.8292 deg
Mean anomaly: 226.3913 deg
Mean motion: 13.72328759 rev/day
Decay rate: 4.7e-07 rev/day²
Epoch rev: 32646
Checksum: 308

Satellite: A0-13
Catalog number: 19216
Epoch time: 94004.70116240
Element set: 853
Inclination: 57.8718 deg
RA of node: 275.2489 deg
Eccentricity: 0.7205805
Arg of perigee: 332.1178 deg
Mean anomaly: 3.3712 deg
Mean motion: 2.09722778 rev/day
Decay rate: -3.37e-06 rev/day²
Epoch rev: 4258
Checksum: 305

Satellite: F0-20
Catalog number: 20480
Epoch time: 93364.10373196

Element set: 640
Inclination: 99.0174 deg
RA of node: 183.0203 deg
Eccentricity: 0.0541189
Arg of perigee: 2.6742 deg
Mean anomaly: 357.7056 deg
_Mean motion: 12.83223163 rev/day
Decay rate: -1.8e-07 rev/day^2
Epoch rev: 18244
Checksum: 281

Satellite: A0-21
Catalog number: 21087
Epoch time: 94002.21124407
Element set: 402
Inclination: 82.9442 deg
RA of node: 265.5312 deg
Eccentricity: 0.0034603
Arg of perigee: 184.9174 deg
Mean anomaly: 175.1647 deg
Mean motion: 13.74530946 rev/day
Decay rate: 9.4e-07 rev/day^2
Epoch rev: 14678
Checksum: 289

Satellite: RS-12/13
Catalog number: 21089
Epoch time: 94003.81201797
Element set: 644
Inclination: 82.9224 deg
RA of node: 133.3515 deg
Eccentricity: 0.0028470
Arg of perigee: 204.2513 deg
Mean anomaly: 155.7306 deg
Mean motion: 13.74032105 rev/day
Decay rate: 1.3e-07 rev/day^2
Epoch rev: 14607
Checksum: 264

Satellite: ARSENE
Catalog number: 22654
Epoch time: 93321.93138545
Element set: 210
Inclination: 1.4185 deg
RA of node: 113.8817 deg
Eccentricity: 0.2935300
Arg of perigee: 161.0091 deg
Mean anomaly: 211.2000 deg

Mean motion: 1.42195961 rev/day
Decay rate: -5.1e-07 rev/day^2
Epoch rev: 275
Checksum: 241

/EX

Date: 7 Jan 94 13:56:00 GMT
From: news-mail-gateway@ucsd.edu
Subject: ORBS\$007.WEATH.AMSAT
To: info-hams@ucsd.edu

SB KEPS @ AMSAT \$ORBS-007.W
Orbital Elements 007.WEATHER

HR AMSAT ORBITAL ELEMENTS FOR WEATHER SATELLITES
FROM WA5QGD FORT WORTH,TX January 7, 1994
BID: \$ORBS-007.W
TO ALL RADIO AMATEURS BT

Satellite: NOAA-9
Catalog number: 15427
Epoch time: 94004.88072055
Element set: 658
Inclination: 99.0751 deg
RA of node: 53.2732 deg
Eccentricity: 0.0014731
Arg of perigee: 323.5684 deg
Mean anomaly: 36.4491 deg
Mean motion: 14.13576766 rev/day
Decay rate: 1.14e-06 rev/day^2
Epoch rev: 46727
Checksum: 314

Satellite: NOAA-10
Catalog number: 16969
Epoch time: 94005.03264269
Element set: 557
Inclination: 98.5120 deg
RA of node: 19.0011 deg
Eccentricity: 0.0014259
Arg of perigee: 84.5560 deg
Mean anomaly: 275.7243 deg
Mean motion: 14.24855080 rev/day
Decay rate: 8.8e-07 rev/day^2
Epoch rev: 37937

Checksum: 308

Satellite: MET-2/17

Catalog number: 18820

Epoch time: 94001.61189588

Element set: 242

Inclination: 82.5416 deg

RA of node: 41.0968 deg

Eccentricity: 0.0015539

Arg of perigee: 292.3032 deg

Mean anomaly: 67.6473 deg

Mean motion: 13.84703832 rev/day

Decay rate: $8.3e-07$ rev/day²

Epoch rev: 29930

Checksum: 312

Satellite: MET-3/2

Catalog number: 19336

Epoch time: 94005.65843375

Element set: 244

Inclination: 82.5449 deg

RA of node: 78.7070 deg

Eccentricity: 0.0016262

Arg of perigee: 312.3715 deg

Mean anomaly: 47.6029 deg

Mean motion: 13.16963362 rev/day

Decay rate: $5.1e-07$ rev/day²

Epoch rev: 26186

Checksum: 304

Satellite: NOAA-11

Catalog number: 19531

Epoch time: 94004.92011509

Element set: 458

Inclination: 99.1565 deg

RA of node: 349.9679 deg

Eccentricity: 0.0011085

Arg of perigee: 230.8219 deg

Mean anomaly: 129.1969 deg

Mean motion: 14.12946589 rev/day

Decay rate: $9.6e-07$ rev/day²

Epoch rev: 27216

Checksum: 334

Satellite: MET-2/18

Catalog number: 19851

Epoch time: 94002.20370060

Element set: 243

Inclination: 82.5242 deg
RA of node: 276.2482 deg
Eccentricity: 0.0014430
Arg of perigee: 338.9778 deg
Mean anomaly: 21.0787 deg
Mean motion: 13.84353419 rev/day
Decay rate: 7.5e-07 rev/day^2
Epoch rev: 24472
Checksum: 296

Satellite: MET-3/3
Catalog number: 20305
Epoch time: 93364.48539230
Element set: 957
Inclination: 82.5490 deg
RA of node: 26.6237 deg
Eccentricity: 0.0006048
Arg of perigee: 3.1578 deg
Mean anomaly: 356.9573 deg
Mean motion: 13.04419292 rev/day
Decay rate: 4.4e-07 rev/day^2
Epoch rev: 20090
Checksum: 295

Satellite: MET-2/19
Catalog number: 20670
Epoch time: 94005.87923448
Element set: 744
Inclination: 82.5450 deg
RA of node: 337.3863 deg
Eccentricity: 0.0014678
Arg of perigee: 242.2637 deg
Mean anomaly: 117.7035 deg
Mean motion: 13.84185748 rev/day
Decay rate: 2.4e-07 rev/day^2
Epoch rev: 17816
Checksum: 327

Satellite: FY-1/2
Catalog number: 20788
Epoch time: 94003.03844225
Element set: 862
Inclination: 98.8453 deg
RA of node: 28.3934 deg
Eccentricity: 0.0015034
Arg of perigee: 108.6050 deg
Mean anomaly: 249.2585 deg
Mean motion: 14.01339724 rev/day

Decay rate: -2.7e-07 rev/day²
Epoch rev: 17057
Checksum: 297

Satellite: MET-2/20
Catalog number: 20826
Epoch time: 94005.74063050
Element set: 743
Inclination: 82.5267 deg
RA of node: 275.2236 deg
Eccentricity: 0.0013392
Arg of perigee: 137.9258 deg
Mean anomaly: 222.2933 deg
Mean motion: 13.83569469 rev/day
Decay rate: 1.11e-06 rev/day²
Epoch rev: 16529
Checksum: 302

Satellite: MET-3/4
Catalog number: 21232
Epoch time: 94005.83128273
Element set: 651
Inclination: 82.5467 deg
RA of node: 284.3740 deg
Eccentricity: 0.0011499
Arg of perigee: 231.4753 deg
Mean anomaly: 128.5339 deg
Mean motion: 13.16458488 rev/day
Decay rate: 5.0e-07 rev/day²
Epoch rev: 12999
Checksum: 315

Satellite: NOAA-12
Catalog number: 21263
Epoch time: 94004.08081272
Element set: 864
Inclination: 98.6370 deg
RA of node: 35.3435 deg
Eccentricity: 0.0013145
g of perigee: 356.9160 deg
Mean anomaly: 3.1933 deg
Mean motion: 14.22352847 rev/day
Decay rate: 1.66e-06 rev/day²
Epoch rev: 13720
Checksum: 273

Satellite: MET-3/5
Catalog number: 21655

Epoch time: 94005.68770103
Element set: 647
Inclination: 82.5545 deg
RA of node: 231.4938 deg
Eccentricity: 0.0012197
Arg of perigee: 243.1016 deg
Mean anomaly: 116.8860 deg
Mean motion: 13.16826637 rev/day
Decay rate: 5.1e-07 rev/day^2
Epoch rev: 11507
Checksum: 294

Satellite: MET-2/21
Catalog number: 22782
Epoch time: 94001.96917156
Element set: 243
Inclination: 82.5480 deg
RA of node: 338.1541 deg
Eccentricity: 0.0022340
Arg of perigee: 335.8493 deg
Mean anomaly: 24.1619 deg
Mean motion: 13.82995595 rev/day
Decay rate: 3.4e-07 rev/day^2
Epoch rev: 1711
Checksum: 298

/EX

Date: 7 Jan 94 20:39:32 GMT
From: sdd.hp.com!col.hp.com!chrism@hplabs.hp.com
Subject: Phonecalls from 20,000 feet?!...
To: info-hams@ucsd.edu

I am going to Alaska again this year, and would like to investigate whether it is possible to make phone calls from way up high by radio (check on the kids, etc.). Is this possible to do via a portable radio? If so, can you give any pointers on how to get started...I have until May 27 to get this going.

Thanks,
Chris Magnuson
chrism@col.hp.com

Date: 7 Jan 1994 23:51:35 GMT

From: nothing.ucsd.edu!brian@network.ucsd.edu
Subject: Repeater database?
To: info-hams@ucsd.edu

Some years ago, one of our repeaters stopped working. When we got up on the the mountain, we found out why:

Someone had torched the door off the building, stolen all the Motorola and GE repeaters out of the building (demonstrating good taste, they left the RCA repeaters alone). On their way out, just for good measure, they cut the guy wires on the tower. When the storm hit a few days later, 70 feet of H-frame tower blew over the side of the mountain to the desert floor below, taking our antennas and a good portion of our coax with it. The solar panels were smashed beyond repair.

Want to know where our repeaters are now? NOYGDB!
- Brian

Date: 7 Jan 1994 16:04:19 GMT
From: swrinde!cs.utexas.edu!math.ohio-state.edu!news.acns.nwu.edu!
casbah.acns.nwu.edu!lapin@network.ucsd.edu
Subject: TOYOTAS AND HAM RIGS
To: info-hams@ucsd.edu

In article <9401071154.AA11626@cmr.ncsl.nist.gov>,
Robert Carpenter <rc@cmr.ncsl.NIst.GOV> wrote:
>
>I note a recent posting, apparently from Toyota USA hams.
>
>Number 1 on their list of requirements for installation of rigs in Toyotas,
>in order for the warrantee to continue is:
> "The rig must be FCC Type Approved."
>
>WHERE DO I BUY FCC TYPE APPROVED HAM GEAR ????????
>
>I thought that ham gear was specifically NOT type approved. But then again I
>don't intend to buy a Toyota, so it's all academic.
>
>73 de w3otc@amsat.org

All commercial ham gear must be FCC type approved (that's a rule that was changed from when I started in ham radio).

If you look on any of your modern commercial gear you should see an FCC ID number on the tag with the serial number.

The only non-type approved equipment that can be used is homebrew, and then only if you make one of a kind per year and hf+ (<144 MHz) external RF power amplifiers, again only one of a kind per year.

Greg Lapin KD9AZ

Date: 7 Jan 1994 16:12:10 GMT
From: swrinde!sgiblab!cs.uoregon.edu!usenet.ee.pdx.edu!fastrac.llnl.gov!
cronkite.nersc.gov!Greg.Chartrand@network.ucsd.edu
Subject: WANTED:Synchronous Detector Schematic
To: info-hams@ucsd.edu

I've looked all over and only found an old Signetics application book which used a phased locked loop chip that is no longer manufactured. I have been told that Motorola makes a quad. detector that can be used as a synchronous detector, but I have not been able to find an application note to that effect. Please help me if you know where I can get a schematic.

73's,

Greg
WA9EYY

Date: Fri, 7 Jan 1994 20:17:51 GMT
From: world!dbr@uunet.uu.net
Subject: What Kind of Antenna Is This?
To: info-hams@ucsd.edu

A mobile antenna I've seen in various cities, almost exclusively on municipal vehicles, looks sort of like a folded sheet of cardboard lying upright on the long side. In other words, it's about four inches high, ten inches long and maybe an inch thick.

Does anyone know what this might be? With its low profile, it might make an interesting ham antenna.

-- Dan N2EDC, who reminds you as a public service:

It's: contraction of "it is."
Its: possessive form of "it."

Date: Fri, 7 Jan 1994 15:12:29 GMT
From: csus.edu!netcom.com!greg@decwrl.dec.com
Subject: Where's my QST?
To: info-hams@ucsd.edu

In article <2gi3tr\$oe6@crcnis1.unl.edu> mcduffie@unlinfo.unl.edu (Gary McDuffie Sr) writes:

>Scott, the cover is full of postage stamps from all over the world.

...and there's an article inside devoted to them. Must be a follow on to the ham radio and train-spotting article that appeared not too long ago.

This solid technical content was selected by the same editorial staff (at the member's expense) which no doubt smugly belittles W2NSD's monthly ramblings in '73.'

We can't cover Lambda, but choo-choos and stamps are relevant, eh guys?

Greg

End of Info-Hams Digest V94 #11

